HIGH FIDELITY REVERSE TRANSCRIPTASES AND USES THEREOF

ABSTRACT OF THE DISCLOSURE

The invention relates to reverse transcriptases which have increased fidelity (or reduced misincorporation rate) and/or terminal deoxynucleotidyl transferase activity. In particular, the invention relates to a method of making such reverse transcriptases by modifying or mutating specified positions in the reverse transcriptases. The invention also relates to nucleic acid molecules containing the genes encoding the reverse trancriptases of the invention, to host cells containing such nucleic acid molecules and to methods to make the reverse trancriptases using the host cells. The reverse transcriptases of the invention are particularly suited for nucleic acid synthesis, sequencing, amplification and cDNA synthesis.

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